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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR SDBC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-12-02**	**Date: 15-04-2017**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.	
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.	
Customer Reference	:	BBMP/EE/BTP/WO/35/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-04-2017	
Sample ID No	:	2017-04-12-02/01	
Type of Mix	:	SDBC-Plant (Semi Dense Bituminous Concrete)	
Date of test	:	12-04-2017	
Oven Dry Weight(gm)	:	5000	

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100	100
9.5	265	265	5.30	94.7	90-100
4.75	2254	2519	50.38	49.6	35-51
2.36	1271	3790	75.80	24.2	24-39
1.18	352	4142	82.84	17.2	15-30
0.3	276	4418	88.36	11.6	9-19
0.075	176	4594	91.88	8.1	3-8
PAN	406	5000	100.00	0.00	0

Note:
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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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CIVIL PRO BANGALORE Sig..... Date.....
R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2017-04-12-02** **Date: 15-04-2017**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/35/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-04-2017
Sample ID No	:	2017-04-12-02/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004), Stripping Value IS:6241-1971((Reaffirmed-2003)
Date of test	:	12-04-2017

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**68**	60 to 70
2	Softening Point, °C	**51.4**	Min. 40°C
3	Ductility, cm	**88**	Min. 75cm
4	Flash point, °C	**232.5**	Min. 220°C
	Fire point, °C	**298.5**	
5	Stripping Value	**2.0**	Not more than 5%

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

Prepared by
Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-04-12-02**	**Date:**	**15-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.		
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.		
Project Name	:	Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.		
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.		
Customer Reference	:	BBMP/EE/BTP/WO/35/2016-17		
Source of Sample	:	Hot Mix Plant, Bangalore		
Sample Condition	:	Satisfactory		
Date of Receipt	:	12-04-17		
Sample ID No	:	2017-04-12-02/01		
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)		
Date of test	:	12-04-17		

The results of the tests conducted on the Semi Dense Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11&500-16
1	Marshal Stability at 60°C, KN	10.38	10.64	8.2KN(min)
2	Marshal flow at 60°C, mm	3.39	3.36	2-4
3	Percent air Voids	4.63	4.38	3-5
4	Percent Voids in mineral Aggregate(VMA %)	13.58	13.65	Min 14
5	Percent Voids filled with Bitumen(VFB %)	70.28	69.85	65-75
6	Density, g/cc	2.25	2.26	–

Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore-97

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Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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SPECIFIC GRAVITY AND WATER ABSORPTION TEST
IS:2386 (Part III)

Lab ID : **CP-RW-2017-04-12-02** **Date: 15-04-2017**

Customer : Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.

Address : Vidayranyapura Sub Division, BBMP, Bangalore.

Agency : Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.

Project Name : K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.

Customer Reference : BBMP/EE/BTP/WO/35/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-04-2017

Sample ID No : 2017-04-12-02/01

Type of Mix : SDBC (Semi Dense Bituminous concrete)

Date of test : 12-04-2017

Sl.No	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
1	Weight of Wet aggregates + Basket suspended in water	A1	grams	2255.5	2171.5	
2	Weight of Empty Basket suspended in water	A2	grams	791	728	
3	Weight of Aggregates in water	A=A1-A2	grams	1464.5	1443.5	
4	Weight of Saturated Surface Dry aggregate	B	grams	2345	2308	
5	Weight of oven dried aggregate	C	grams	2340	2303	
6	Specific gravity	C/(B-A)		2.66	2.66	2.66
7	Apparent Specific gravity	C/(C-A)		2.67	2.68	2.68
8	Water absorption	100*(B-C) /C	Percent	0.21	0.22	0.22

Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore - 97

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

Prepared By:
Harshitha

End of Report

TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID	:	**CP-RW-2017-04-12-02**	**Date: 15-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.	
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.	
Customer Reference	:	BBMP/EE/BTP/WO/35/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-04-17	
Sample ID No	:	2017-04-12-02/02	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	12-04-17	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	318.3	318.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	65.8	63.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	252.1	254.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.6
5	Aggregate impct value	(B/A)*100	20.7	19.8
6	Aggregate impct value (Mean of two tests)		20.2	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Prepared By:
Harshitha

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CIVIL Pro Sig..... Date..... BANGALORE
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID	:	**CP-RW-2017-04-12-02**	**Date: 15-04-2017**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.	
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.	
Customer Reference	:	BBMP/EE/BTP/WO/35/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-04-2017	
Sample ID No	:	2017-04-12-02/01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	12-04-2017	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	321.8	321.8
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	68.1	66.7
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	253	254.6
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.7	0.5
5	Aggregate impct value	(B/A)*100	21.2	20.7
6	Aggregate impct value (Mean of two tests)		20.9	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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Prepared By:
Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-12-02** **Date: 15-04-2017**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalor
Project Name	:	Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/35/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-04-2017
Sample ID No	:	2017-04-12-02/01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	12-04-2017

Result:

Flakiness Index	12.7%
Elongation Index	10.6%
Combined Flakiness & Elongation Index for SDBC	23.3%

Comments:

Maximum allowable Flakiness & Elongation Index For SDBC is 30 %

Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore - 97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID	:	**CP-RW-2017-04-16-02**	**Date: 18-04-2017**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.	
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.	
Customer Reference	:	BBMP/EE/BTP/WO/35/2016-17	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	16-04-2017	
Sample ID No	:	2017-04-16-02/01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	16-04-2017	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	502	501
2	Weight of the sample After extraction	B	476	475
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.18	5.19
4	Average percentage	%	5.18	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP Bangalore - 97

Prepared By:
Harshitha

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Authorized Signatory
Quality Manager

Lab ID : **CP-RW-2017-04-16-02** **Date: 18-04-2017**

Sample ID No : **2017-04-16-02/01**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 476

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	31	31	6.5	93.5	90-100
4.75	213	244	51.3	48.7	35-51
2.36	63	307	64.5	35.5	24-39
1.18	39	346	72.7	27.3	15-30
0.3	71	417	87.6	12.4	9-19
0.075	34	451	94.7	5.3	3-8

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 475

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	29	29	6.1	93.9	90-100
4.75	215	244	51.4	48.6	35-51
2.36	62	306	64.4	35.6	24-39
1.18	41	347	73.1	26.9	15-30
0.3	66	413	86.9	13.1	9-19
0.075	32	445	93.7	6.3	3-8

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

End of Report

TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID	:	**CP-RW-2017-04-16-02**	**Date: 18-04-2017**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.	
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.	
Customer Reference	:	BBMP/EE/BTP/WO/35/2016-17	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	16-04-2017	
Sample ID No	:	2017-04-16-02/02	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	16-04-2017	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	502
2	Weight of the sample After extraction	B	474	475
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.20	5.38
4	Average percentage	%	5.29	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Prepared By:
Harshitha

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Authorized Signatory
Quality Manager

Lab ID : **CP-RW-2017-04-16-02** **Date: 18-04-2017**

Sample ID No : **2017-04-16-02/02**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 474

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	30	30	6.3	93.7	90-100
4.75	212	242	51.1	48.9	35-51
2.36	72	314	66.2	33.8	24-39
1.18	51	365	77.0	23.0	15-30
0.3	59	424	89.5	10.5	9-19
0.075	32	456	96.2	3.8	3-8

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 475

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	27	27	5.7	94.3	90-100
4.75	225	252	53.1	46.9	35-51
2.36	81	333	70.1	29.9	24-39
1.18	45	378	79.6	20.4	15-30
0.3	53	431	90.7	9.3	9-19
0.075	21	452	95.2	4.8	3-8

Assistant Executive Engineer
Vijayanagara Sub Division
BBMP
Bangalore-97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-07-01** **Date: 08-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/35/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-17
Sample ID No	:	2017-04-07-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	07-04-17
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	196	196	1.96	98.0	95-100
22.4	2515	2711	27.11	72.9	60-80
11.2	1350	4061	40.61	59.4	40-60
4.75	1655	5716	57.16	42.8	25-40
2.36	1432	7148	71.48	28.5	15-30
0.6	951	8099	80.99	19.0	8-22
0.075	1543	9642	96.42	3.6	0-5

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

Note:-

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Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-07-01** **Date: 08-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/35/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-17
Sample ID No	:	2017-04-07-01/02
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	07-04-17
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	201	201	2.01	98.0	95-100
22.4	2287	2488	24.88	75.1	60-80
11.2	2251	4739	47.39	52.6	40-60
4.75	2586	7325	73.25	26.8	25-40
2.36	954	8279	82.79	17.2	15-30
0.6	851	9130	91.30	8.7	8-22
0.075	732	9862	98.62	1.4	0-5

Vidyaranyapura Sub Division BBMP, Bangalore-97

Note:-

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Prepared By:
Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2017-04-07-01** **Date: 08-04-17**

Customer : Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.

Address : Vidayranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.

Agency : K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.

Customer Reference : BBMP/EE/BTP/WO/35/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-04-17

Sample ID No : 2017-04-07-01/03

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 07-04-17

Oven Dry Weight(gm) : 10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	217	217	2.17	97.8	95-100
22.4	1382	1599	15.99	84.0	60-80
11.2	2543	4142	41.42	58.6	40-60
4.75	2651	6793	67.93	32.1	25-40
2.36	1043	7836	78.36	21.6	15-30
0.6	910	8746	87.46	12.5	8-22
0.075	801	9547	95.47	4.5	0-5

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Authorized Signatory
Quality Manager

End of Report

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-10-03** **Date: 12-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/35/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-17
Sample ID No	:	2017-04-10-03/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	10-04-17
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	232	232	2.32	97.7	95-100
22.4	1548	1780	17.80	82.2	60-80
11.2	2287	4067	40.67	59.3	40-60
4.75	2716	6783	67.83	32.2	25-40
2.36	1172	7955	79.55	20.5	15-30
0.6	1065	9020	90.20	9.8	8-22
0.075	909	9929	99.29	0.7	0-5

Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore - 97

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Authorized Signatory
Quality Manager

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-10-03** **Date: 12-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/35/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-17
Sample ID No	:	2017-04-10-03/02
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	10-04-17
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	198	198	1.98	98.0	95-100
22.4	1965	2163	21.63	78.4	60-80
11.2	2176	4339	43.39	56.6	40-60
4.75	2801	7140	71.40	28.6	25-40
2.36	1187	8327	83.27	16.7	15-30
0.6	754	9081	90.81	9.2	8-22
0.075	601	9682	96.82	3.2	0-5

Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore - 97

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Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-10-03** **Date: 12-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/35/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-17
Sample ID No	:	2017-04-10-03/03
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	10-04-17
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm),	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	169	169	1.69	98.3	95-100
22.4	2016	2185	21.85	78.2	60-80
11.2	2281	4466	44.66	55.3	40-60
4.75	2587	7053	70.53	29.5	25-40
2.36	1082	8135	81.35	18.7	15-30
0.6	832	8967	89.67	10.3	8-22
0.075	598	9565	95.65	4.3	0-5

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

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Authorized Signatory
Quality Manager

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-07-01** **Date: 08-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/35/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-17
Sample ID No	:	2017-04-07-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	07-04-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.3%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.8%	
Combined Flakiness and Elongation Index for WMM	25.1%	

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore-97

Note:-
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-07-01** **Date: 08-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/35/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-17
Sample ID No	:	2017-04-07-01/02
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	07-04-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.5%	
Combined Flakiness and Elongation Index for WMM	22.3%	

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore-97

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Quality Manager

Prepared By:
Harshitha

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-10-03** **Date: 13-03-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/35/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-17
Sample ID No	:	2017-04-10-03/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	10-04-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.5%	
Combined Flakiness and Elongation Index for WMM	22.3%	

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore-97

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Prepared By:
Harshitha

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-04-10-03** **Date: 12-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/35/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-17
Sample ID No	:	2017-04-10-03/02
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	10-04-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	311.8	311.7
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	72.3	70.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	239.1	241.3
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.3
5	Aggregate impact value	(B/A)*100	23.2	22.5
6	Aggregate impact value (Mean of two tests)	Pecentage	22.8	

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore-97

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Harshitha

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Authorized Signatory
Quality Manager

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-04-07-01** **Date: 08-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/35/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-17
Sample ID No	:	2017-04-07-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	07-04-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	315.0	315.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	240.8	240.3
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.7
5	Aggregate impact value	(B/A)*100	23.5	23.5
6	Aggregate impact value (Mean of two tests)	Pecentage	23.5	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-04-07-01**	**Date: 08-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Teachers Layout, Raghavendra layout, Balaji Layout in Ward No.11 Vidyaranyapura Sub Division.	
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.	
Customer Reference	:	BBMP/EE/BTP/WO/35/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	07-04-17	
Sample ID No	:	2017-04-07-01/02	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	07-04-17	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	309.4	309.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	77.3	75.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	231.7	234.0
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	25.0	24.3
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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